

**Docket No. 217 – Development and Management Plan Inspection**

Northeast Utilities Service Company Certificate of Environmental Compatibility and Public Need for the construction of a 345-kV electric transmission line and reconstruction of an existing 115-kV electric transmission line between Connecticut Light and Power Company's Plumtree Substation in Bethel, through the towns of Redding, Weston, and Wilton, and to the Norwalk Substation in Norwalk, Connecticut.

**Date:** January 12, 2006

**Inspector:** Don Ukers

**Location:** Transition Stations: Hoyts Hill, Archers Lane, Norwalk Junction

**Storm/**

**Rain Event:** Approximately 0.53" of precipitation fell mostly in the form of rain on 1/11 as reported by NOAA.

Areas of Inspection	Observation	Recommended Action
Access Roads and Adjacent Roadways	<p>- <b>Hoyts Hill:</b> Access is gained off Hoyts Hill Road. Ruts and erosion remain upgradient of the stone placed at the access point under snow cover. 12/1-1/12/06.</p> <p>- This disturbed area receives runoff from Hoyts Hill Road which has caused sediment to accumulate within the stone of the access drive. 12/1-1/12/06.</p> <p>- <b>Archers Lane:</b> Most of the snow has melted since the last inspection and conditions were muddy. 1/12/06.</p> <p>- <b>Norwalk Junction:</b> Sediment tracking was not noted from the gravel pad of the access drive. Some restoration was noted along the front of the site. 1/12/06.</p>	<p>- Ruts should be smoothed out and additional stone installed along this portion to prevent further erosion and sedimentation. Haybales were installed here but did not seem to have much effect. 12/30-1/12/06.</p> <p>-None at this time. Maintain adjacent silt fence as needed. 1/12/06.</p> <p>-Continue to monitor sediment tracking issues and sweep streets if necessary. 1/12/06.</p>
Foundation construction	<p>- The Hoyts Hill station yard has been backfilled and brought to grade. Final grades are not complete along the wetland edge due to future work here. 11/17-1/12/06.</p> <p>- Additional work may be</p>	<p>-None at this time. 1/12/06.</p> <p>-The pads may need to be</p>

Areas of Inspection	Observation	Recommended Action
Foundation construction continued	<p>necessary on the outlet/dissipater pads as erosive gullies continue. 12/01-1/12/06.</p> <p>-At Archers Lane, construction of the retaining walls continues. 1/12/06</p> <p>- Earthwork and foundation work continues in the station yard and large soil stockpiles were noted. 1/12/06</p> <p>-At Norwalk Junction, 345kV vault work is complete and 115kV structure work is wrapping up. 1/12/06</p>	<p>extended based on the noted erosion issues. See erosion control section. 12/01-1/12/06.</p> <p>-None at this time. 1/12/06</p> <p>-None at this time. The soil remains contained on site. 1/12/06</p> <p>- See erosion control section for more information. 1/12/06.</p>
Erosion and Sediment Controls (includes inspection within 24 hours of a storm event)	<p><b>-Hoyts Hill:</b> The majority of the perimeter silt fence remains in good condition and water was seen running clear through the barrier, although a small amount of sedimentation was noted.1/4-1/12/06</p> <p>- The erosive gullies are still present (under the snow cover) on both the northern and southern slopes resulting in sediment deposits along the silt fence. 10/27-1/12/06.</p> <p>-As stated previously, erosion and sedimentation were noted at the access drive and the haybales did not have much effect. 12/30-1/12/06.</p> <p>- <b>Archers Lane:</b> Monitor stormwater run-off velocity off the engineered slope. This area is steep and water used to collect at the base at the silt fence. It is currently working well. 1/12/06.</p>	<p>- Continue to monitor the area and be proactive in maintenance of the erosion controls, especially in areas with wetland immediately adjacent. 1/4-1/12/06</p> <p>- Gullies should be repaired and a stronger method of stabilization, such as erosion control mats, should be considered. 10/27-1/12/06</p> <p>-Investigate whether extension of the outlet stone pad would help the situation and restore the erosion caused here. 10/27-1/12/06</p> <p>- Ruts should be smoothed out and additional stone installed in the disturbed area of the access drive to prevent further erosion and sedimentation. 12/1-1/12/06.</p> <p>- Continue to monitor this area, especially after significant rain events. Watch the erosion controls during future snow plowing. 1/12/06.</p>

Areas of Inspection	Observation	Recommended Action
Erosion and Sediment Controls continued	<p>- <b>Norwalk Junction:</b> The majority of the perimeter silt fence along the river still needs to be toed-in. 12/22-1/12/06.</p> <p>-The cleared/disturbed area noted outside the silt fence adjacent to the river, remain flooded with pooled water. 12/30-1/12/06</p> <p>- Erosive gullies/soil slumping remain in a number of locations along a portion of the drainage swale due to site run-off, resulting in some sedimentation to the swale. The surrounding soil is disturbed. 12/30-1/12/06.</p> <p>- The front of the site and remaining portion of the swale was very well restored with erosion matting, thick straw mulch and stone check dams. 1/12/06</p> <p>-Dewatering associated with 345kv vault excavation is complete. 1/12/06</p>	<p>- A majority of the erosion control barrier is still in need of attention. 12/22-1/12/06</p> <p>- This area receives direct runoff from the site through the swale making water quality important. 1/12/06</p> <p>- The erosion control matting on the swale likely needs to be extended up and over the top of slope to prevent further erosion until the growing season. 12/30-1/12/06</p> <p>- Similar restoration should continue in other disturbed areas and along the washouts on the lower swale. 1/12/06</p> <p>-Any future dewatering needs on site will require significant efforts to control turbidity to this swale. 12/14-1/4/06</p>
Inland Wetland and Watercourse encroachment and mitigation	<p>- <b>Hoyts Hill:</b> As part of the transition station, a small area of wetland was cleared and altered. The outer silt fence is still up as a work limit. Sediment is accumulating along the fence from the erosion but water continues to run clear through the fence in this area.12/8/05-1/12/06.</p> <p>-<b>Archers Lane:</b> No immediate wetland area concerns were noted. Watch run-off velocity down the completed slopes and walls. 1/12/06</p> <p>- <b>Norwalk Junction:</b> The majority of the perimeter</p>	<p>-Continue to monitor. In general, keep all equipment and materials out of wetlands not to be disturbed and keep controls in good repair. Work is still proposed through here to connect with the underground facilities. 11/10-1/12/06</p> <p>-None at this time. 1/12/06</p> <p>- Perimeter controls still need to be maintained along the river. 12/22-1/12/06</p>

Areas of Inspection	Observation	Recommended Action
	<p>erosion controls along the Norwalk River need to be toed-in. 1/12/06</p> <p>- Flooding may be an issue during extended periods of rain. 11/23/05- 1/12/06</p> <p>- The outlet of the drainage swale is at the headwall of the wetland area. Turbidity issues have been noted here in the wetlands but have not had a significant impact on the river. 12/30-1/12/06.</p>	<p>-Since silt fence has been washed over before, consider reinforcing with wire fence as well. 1/12/06</p> <p>-See Erosion Control Section for more details. 12/30-1/12/06</p>
State species of concern, threatened and endangered species	- No species of concern are located in these areas of construction.	- N/A
Vegetative clearing limits (including trees to save or danger trees noted)	<p><b>-Hoyts Hill:</b> The slopes and areas surrounding the site had begun to experience noticeable increase in growth before the cold weather but erosion issues continue and will need attention. 11/17-1/12/06</p> <p><b>- Archers Lane:</b> No new clearing was noted during this inspection. 1/12/06</p> <p><b>- Norwalk Junction:</b> The area that had been cleared outside the silt fence (11/23) now has pooled water. 12/30-1/12/06</p>	<p>- It will be difficult to obtain sufficient growth due to the late time of year. An alternative method of stabilization, such as Erosion Control Mats should be considered. 11/02-1/12/06</p> <p>-None at this time. 1/12/06</p> <p>- This area was not restored or enclosed in silt fence but is now partially flooded. 1/12/06</p>
Dewatering	<p>-Dewatering was not necessary at Hoyts Hill but erosion resulting from the outlet pipes and slope run-off continues. 1/12/06</p> <p>- Dewatering associated with 345kv vault excavation was complete and the upper portion of the swale and site were very well restored. 1/12/06</p>	<p>-See erosion control section. 1/12/06</p> <p>- Groundwater here is extremely high and will require dewatering for multiple portions of the project. Future dewatering will need at least as many controls as what was used by 345kV contractors. 1/12/06</p>
	- All blasting is complete at	- None at this time.

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Blasting	this time. 1/12/06	
Spills and Material Storage	-No spills or leaks were noted during this inspection 1/12/06	<ul style="list-style-type: none"><li>- Continue to keep all vehicles maintained well (i.e. no apparent fluid leaks) if they will be used or stored on site</li><li>- Report spills immediately, even if they are being controlled.</li><li>- Take care not to get carried away and to be vigilant when refueling. Avoid refueling in the areas near the wetlands. Se proper storage for all materials.</li></ul>
Additional Observations		

**Next likely scheduled inspection:**

Thursday, January 19, 2006

I have personally examined and am familiar with the information submitted in this document and all attachments and certify that based on reasonable investigation, including my inquiry of those individuals responsible for obtaining the information, the submitted information is true, accurate and complete to the best of my knowledge and belief, and I understand that any false statements made in this document or its attachments may be punishable as a criminal offense in accordance with Section 22a-6 under Section 53a-157 of the Connecticut General Statutes.

**Inspector's Signature:**

Diana Walden for Don Ukers



Hoyts Hill Transition Station: Both photos show the erosive gullies still present under the snow cover located on either side of the station yard. 1/12/06



View of the silt fence in place at the wetland boundary. Water flowing through the fence is clear but areas of sedimentation have piled on the work side of the fence due to run-off from the gully. 1/12/06.





Archers Lane: View looking up the access road from Diamond Hill Rd. 1/12/06.



Photo shows the continuing progress being made on the retaining walls. 1/12/06.





Norwalk Junction: Photo on the left shows an overview of the site. 115kV contractors will be removing scaffolding from the structure. Photo on the right shows the silt fence along the perimeter of the site which still needs to be toed-in. 1/12/06



Photo on the left shows a portion of the swale where erosive gullies and washouts were still present. Photo on the right shows very good restoration of the remainder of the swale and adjacent area. The swale here was placed with erosion matting/netting and mulched heavily with hay. Stone check dams are also in place. Continue to restore in this manner where feasible and repair the washouts. 1/12/06